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## Title: LED and light source miner's lamp

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## Claim

1, LED cold light source miner's lamp includes: have LED luminotron (3) in having lamp holder (5) of spotlight characteristic, characterized in: there is the assembly in the focus department of crowd's formula lens (1) one side at printed plate (4) and LED luminotron (3) pointolite, forms the area source by printed plate (4) and LED luminotron (3) pointolite, and all corresponding LED luminotron (3) pointolites are located to the focus of every convex lens (2) in group formula lens (1).

2, the LED cold light source miner's lamp according to claim 1 characterized in: the central line of every LED luminotron (3) can be identical rather than the main shaft of convex lens (2) that correspond, forms the collimated beam; Also may not be identical, form the convergent pencil of rays.

3, the LED cold light source miner's lamp according to claim 1 characterized in: lens shading eaves (6) can be taken to said crowd's formula lens (1), also may not take lens shading eaves (6).

4, the LED cold light source miner's lamp according to claim 1 characterized in: said convex lens (2) are including lenticular lens, single face convex lens, concave surface convex lens.